

CLAIM AMENDMENTS

1. (Canceled).

2. (Currently Amended) A selective, direct chemical, anti-carcinogenic action filtration method for filtering toxic products, in particular polycyclic aromatic hydrocarbons (PAH) such as benzo(a)pyrene (BaP) and nitrosamines, contained in the tobacco smoke of a tobacco product to control the level of toxic products as compared with that of nicotine in order that the level reduction at the output of the filter is larger than a predetermined threshold, the method comprising steps of:

scavenging all or part of the toxic products by means of an active ingredient acting on said toxic products according to molecular processes comparable to those according to which DNA and/or RNA of the human cell react with regards to said toxic products.~~The method according to claim 1, such that said active ingredient consists of~~comprising molecules formed by one or more nitrogen-containing cycles or nitrogen-containing heterocycles; ~~said active ingredient is in~~ a chain of said molecules, or ~~said molecules~~ bound in a common chemical arrangement to one fiber, or both,

controlling the operating conditions of the filter by operating in a substantially non-aqueous medium and with a basic pH, and

adjusting the mass of the active ingredient so that it is larger than or equal to 0.1% of the mass of the filter.

3. (Previously Presented) The method according to claim 2, such that the molecule of the active ingredient is selected from the group consisting of DNA, RNA and derivatives thereof.

4. (Currently Amended) A filter for a tobacco product with a selective, direct chemical, anti-carcinogenic action, for filtering polycyclic aromatic hydrocarbons (PAH), notably benzo(a)pyrene (BaP), as well as nitrosamines, while preserving the nicotine level and taste aromas for the satisfaction and the pleasure of the smoker;

said filter including an active ingredient consisting of molecules formed by one or more nitrogen-containing cycles or nitrogen-containing heterocycles,

said active ingredient is- a chain of said molecules, or said molecules bound to a fiber in a common chemical arrangement, or both;

the mass of said nitrogen-containing cycles or heterocycles being at least equal to or larger than 0.1% of the total mass of the filter; and

said nitrogen-containing cycles or heterocycles operating in a substantially non-aqueous medium and with a basic pH.

5. (Previously Presented) The filter according to claim 4, such that the molecules are formed as a polymer.

6. (Previously Presented) The filter according to claim 4, such that the active ingredient exclusively consists of said molecules.

7. (Previously Presented) The filter according to claim 4, such that the mass of said nitrogen-containing cycles or heterocycles is at least equal to or larger than 1% of the total mass of the filter.

8. (Previously Presented) The filter according to claim 4, such that the moisture content of the filter lies between 5 and 10%.

9. (Previously Presented) The filter according to claim 4, such that the pH of the filter is larger than 8.

10. (Previously Presented) The filter according to claim 4, such that the molecule of the active ingredient is selected from the group consisting of DNA, RNA and derivatives thereof.

11. (Previously Presented) The filter according to claim 4, such that at least one function is added to the molecule of the active ingredient, on at least one of the nitrogen-containing cycles or nitrogen-containing heterocycles, the function being selected from the group consisting of amine  $\text{NH}_2$ , ketone, aldehyde, methyl, alkene, alkyl, and aryl.

12. (Previously Presented) The filter according to claim 4, such that one or more sugars is added to at least one molecule of the active ingredient.

13. (Previously Presented) The filter according to claim 4, such that one or more acid functions is added to at least one molecule of the active ingredient.

14. (Currently Amended) The filter according to ~~any of~~ claim 4, such that polymerization is performed at the nitrogen-containing cycles.

15. (Previously Presented) The filter according to claim 4, such that the molecule of the active ingredient includes a halogen in a form of one or more atoms, molecules, radicals, or ions.

16. (Previously Presented) The filter according to claim 4, such that the active ingredient includes a halogen salt medium.

17. (Previously Presented) The filter according to claim 4, such that said fibers are partly halogenated, and/or are in a medium including atoms, molecules, radicals or ions of a halogen.

18. (Previously Presented) A method for manufacturing a filter including an active ingredient consisting of molecules formed by one or more nitrogen-containing cycles or nitrogen-containing heterocycles, said active ingredient being selected from the group consisting of a chain of said molecules and said molecules bound to a fiber in a common chemical arrangement; the mass of said nitrogen-containing cycles or heterocycles being at least equal to or larger than 0.1% of the

total mass of the filter; said nitrogen-containing cycles or heterocycles operating in a substantially non-aqueous medium and with a basic pH, said method comprising the step of extruding and/or rolling together said molecules and said fibers.

19. (Canceled).

20. (Previously Presented) The filter according to claim 4, such that said molecules and/or said fibers are incorporated in separate compartments.

21. (Previously Presented) The filter according to claim 4, such that said molecules and/or said fibers exist in a gelatinous, liquid or gaseous physical state.

22, 23. (Canceled).

24. (Previously Presented) The method of claim 2, wherein the nitrogen-containing cycles or heterocycles are nitrogen-containing heteroaromatic cycles selected from the group consisting of pentacycles, hexacycles and combinations thereof.

25. (Previously Presented) The method of claim 2, wherein the active ingredient is adenosine triphosphate (ATP), cyclic adenosine monophosphate (AMP), or adenylcyclase.

26. (Previously Presented) The filter of claim 4, wherein the nitrogen-containing cycles or heterocycles are nitrogen-containing heteroaromatic cycles selected from the group consisting of pentacycles, hexacycles and combinations thereof.

27. (Previously Presented) The filter of claim 4, wherein the fiber comprises cellulose acetate.

28. (Previously Presented)                    The filter of claim 4, wherein the active ingredient is adenosine triphosphate (ATP), cyclic adenosine monophosphate (AMP), or adenylylase.

29. (Previously Presented)                    A tobacco product including a filtration device that includes an active ingredient consisting of molecules formed by one or more nitrogen-containing cycles or nitrogen-containing heterocycles,

                  said active ingredient is a chain of said molecules, or said molecules bound to a fiber in a common chemical arrangement, or both;

                  the mass of said nitrogen-containing cycles or heterocycles being at least equal to or larger than 0.1% of the total mass of the filter; and

                  said nitrogen-containing cycles or heterocycles operating in a substantially non-aqueous medium and with a basic pH.